

REMARKS

Claim 10 has been written in independent form and claim 9 has been retained in independent form to avoid the new matter objection that was raised in the Advisory Action.

In the Office Action of December 27, 2004, Claims 9-11 were rejected under 35 U.S.C. §102(b) as being anticipated by Miwa et al. (Miwa)

Reconsideration is requested.

Claim 9 has been amended to point out that the claimed optical glass "consists of" the recited components. Miwa et al. discloses a radiation shielding glass and comprises 1.5 – 2.0% of CeO_2 as an essential ingredient for restraining coloration by radiation. In contrast, the glass defined by the amended claims does not contain CeO_2 . Since the present invention differs from Miwa in the use of the glass and properties necessary of the use and composition for achieving the properties, the glass of the present invention differs substantially from the Miwa glass. Miwa fails to disclose the composition of the glass of the present invention and the characteristic refractive index property of the glass of the present invention that changes due to the compaction phenomenon is small. For these reasons, it is requested that this ground of rejection be withdrawn.

In the Office Action of December 27, 2004, Claims 9-13 were rejected under 35 U.S.C. §102(b) as being anticipated by Speit et al. (Speit)

The glass of Speit contains 0.1 – 5% of CeO_2 as an essential glass ingredient for preventing absorption of X-ray and absorption in the visible ray region. In contrast, the glass of the present invention does not contain CeO_2 . Since the present invention differs from Speit in the use of the glass and properties necessary for the use and composition for achieving the properties, the glass of the present invention differs substantially from the Speit glass. Speit fails to disclose the composition of the glass of the present invention and the characteristic property of the glass which is that the characteristic change in the refractive index due to the compaction phenomenon is small. For these reasons, it is requested that this ground of rejection be withdrawn.

In the Office Action of December 27, 2004, Claims 9-13 were rejected under 35 U.S.C. §102(b) as being anticipated by Dalton et al. (Dalton).

Reconsideration is requested.

Dalton teaches the addition of Rb_2O as an additive that increases the electrical resistance of the glass. The amount of Rb_2O that is useful is equivalent to 1/20 of the total amount of the alkali metal oxides which are employed at a level of 5-20%. In contrast, the glass of the present invention does not contain Rb_2O . Since the present invention differs from Dalton et al in the properties of the glass and composition for achieving the properties, the glass of the present invention differs substantially for Dalton et al.

Furthermore, in Table 1 of Dalton, the amount of Na_2O in Comparative Example Nos. 15 and 18 is 1.2%. In contrast, the amount of Na_2O of the glass of the present invention is 5 – 14% and, therefore, the compositions of these Comparative Examples are outside of the content range of Na_2O of the glass of the amended claims. The composition of the glass of the present invention and the properties of the glass of the present invention that change such as the refractive index change due to the compaction phenomenon is small are not disclosed or even suggested by Dalton. For these reasons, it is requested that this ground of rejection be withdrawn.

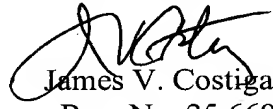
Claims 9-13 were rejected under 35 U.S.C. §102(b) as being anticipated by Davis et al.. (Davis).

Reconsideration is requested.

The glass of Davis contains 0.5 – 5% of ZnO as an essential ingredient for achieving, with a smaller amount of PbO , and equivalent refractive index to glasses containing a high amount of PbO . In contrast, the glass of the present invention does not contain ZnO . Since the present invention differs for Davis in that the properties required and composition of achieving the properties, the glass of the present invention is substantially different from the Davis glass. Davis fails to disclose or suggest the composition of the glass of the present invention and the characteristic property of the glass of the present invention which is that the changes in the refractive index due to the compaction phenomenon are small. For these reason, it is requested that this ground of rejection be withdrawn

An early and favorable action is earnestly solicited.

Respectfully submitted,


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